ABSTRACT OF THE DISCLOSURE

A ceramic envelope for high intensity discharge lamp comprises: a cylindrical barrel section 1 that forms an electric discharge light emitting space; annular closing sections 2, 2 that close both ends of the barrel section 1, respectively; and capillary sections 3, 3 that insert and fix an electric discharge electrode to be outwardly protruded so as to be opposed to each other from the substantial center of both of the closing sections. The envelope essentially consists of alumina, and is formed to have light transmission properties by adding MgO. Then, the thickness of the barrel section at the boundary between the barrel section 1 and the closing section 2 is formed to be increased in thickness by providing a tapered section 4a to the thickness in the vicinity of the center of an electric discharge light emitting space. In this way, there is provided a high emitting envelope for high intensity discharge lamp capable of extending the service life of the lamp even if the electric discharge space is cylindrical.